

Figure 1.

Tail										Shaft									
D 30	MSKRLRV	.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.KNFPPGV				LSLKLADPIA	ITNGDVSLKV								
C 5	M.KRARPS	ED	TFNPVYPYDT	ETGPPTVPFL	TPPFVSPNGF	.QESPPGV				LSLRLSEPLV	TSNGMLALKM								
D 9	MSKRLRV	.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.QNFPFV				LSLKLADPIA	IVNGNVSLKV								
D 17	MSKRLRV	.ED	DFNPVYPYGY	ARN.QNIPFL	TPPFVSSDGF	.KNFPPGV				LSLKLADPIT	IANGDVSLKV								
B 3	MAKRRL	.ST	SFNPVYPYED	ESSSQH.PFI	NPGFISPDGF	TQ.SPNGV				LSLKC VNPLT	TASGSLQLKV								
30	GGGLTVEQD																		135
5	GNGLSL.DEA		GNLTSQNVTT	VSPPLKTKS	NINLEISAPL	TVTSEALTVA	AAAPLMVAGN	TLTMQSQAPL											
9	GGGLTL.QDG	T																	
17	GGGLTL.QE																		
3	GSGTLV.D																		
30						SGNLSV	NPKAPLQ					VGTDKKLEL							205
5	TVHDSKLSIA		TQGPLTVSEG	KLALQTSQPL	TTTDSSTLTI	TASPPLTTAT	GSLGIDLKEP	IYTQNGKLGL											
9						GKLTV	NADPPLQ					LTNN.KLGI							
17						GSLTV	DPKAPLQ					LANNKKLEL							
3												TT						DGSLEENI	
30	ALAPPFDVRD		.NKLAILVG	DGLKVIDRSI	SDLPGLLNY														275
5	KYGAPLHVTD		DLNLTIVATG	PGVTINNTSL	QTKVTGALGF	DSQGNMQLNV	AGGLRIDSQN	RRLILDVSYP											
9	ALDAPPFDVID		.NKLTLLAG	HGLSII.TKE	TSTLPGLRN														
17	VYVDPFEVSA		.NKLKLVG	HGLKILDDKS	AGGLKDLIG														
3	KVNTPLTKSN		HSINL.PIG	NGLQIEQNKL	CS														
30												LVVLTGKGIG							345
5	FDAQNLNLR		LGQGPLFINS	AHNLIDINYNK	GLYLFTASNN	SKKLEVNLS	AKGLMFDATA	IAINAGDGLE											
9												T						LVVLTGKGIG	
17												K						LVVLTGKGIG	
3																			
30	NEELKNDDGS		NKGVGLCVRI	G.E	GGGLTF	DDKGYLVAWN	NKHDIRT												400*
5	FG.SPNA		TNPLKTKIGH	GLEFDSNKAM	VPKLTGLSF	DSTGAITVGN	KNNDKLT												410*
9	TESTDNGG		.TVCVRV	G.E	GGGLSF	NNDGDLVAFN	KKEDKRT												
17	TENLQNTDGS		SRGIGISVRA		REGLTF	DNDGYLVAWN	PKYDTRT												
3					KLGNGLTF	DSSNSIALKN	N												
30	CKID		.IEK	DSKLTVLTK	CGSQILANVS	LIIVNGKFKI	LNNKTDPSL	PKSFNIKLLF	DQNGVLLSNS										
5	ORLN		.AEK	DAKLTVLTK	CGSQILATVS	VLAV.K	GSLAPISGT	VQSAHLIRF	DENGVLNNS										
9	CKID		.QDK	DSKLTVLTK	CGSQILANVS	LIVVDGKYKI	INNNTQP	.A	LKGFTIKLLF	DENGVLMESS									
17	CRID		.KEK	DSKLTVLTK	CGSQILANVS	LIVVSGKYQY	IDHATNP	.T	LKSFKIKLLF	DNKGVLPPSS									
3	CIIEYGQNP		DSKLTLLLVK	NGGIVNGYVT	LMGASDYVNT	LFKNKNV			SINVELYF	DATGHILPDS									
30	N		.I	EKQYLNFRSG	DSILPEPYKN	AIGFMPNLLA	YAKATTDQSK	IY	ARNTI	YGNIIYLDNQP									526*
5	F		.L	DPEYWNFRNG	LTETGAYTN	AVGFMPNLSA	YPKSHGK	.T	AKSNI	VSQVYLNQDK									
9	N		.L	GKSYWNFRNE	NSIMSTAYEK	AIGFMPNLVA	YPKPTAG	.SK	KY	ARDIV	YGNIIYLGKGP								
17	N		.L	DSTYWNFRSD	NLTVSEAYKN	AVEFMPNLVA	YPKPTG	.SK	KY	ARDIV	YGNIIYLGGLA								
3	SSLKTDLELK		YKQTADF			S	ARGFMPSTTA	YPFVLPN	.AG	TH	NENYI	FGQCYKASD							
30	YN		.PVIKI	TFNNEAD		SAYSIT	FNYSWTKD	.Y	DNIPFDSTSF	TFSYIAQE									582*
5	TK		.PVTIT	TLNGTQETGD	.TT	PSAYSMS	FSWDWSGHNY	INEIFATSSY	TFSYIAQE										
9	DQ		.PVIKT	TFNQETG		CEYSIT	FDPSWAKT	.Y	VNVEFETTSF	TFSYIAQE									
17	YQ		.PVIKV	TFNEAD		SAYSIT	FEFVWNKE	.Y	ARVEFETTSF	TFSYIAQQ									
3	GALFPLEVTV		MLNKRLPDSR	TSYVMTFLWS	LNAGLAPET		TQATLITSPF		TFSYIRED										

Knob

* numbers refer to Ad5 amino acid sequence

Figure 2.

Amino Acids within Ad5 fiber **Important** and **Critical** for CAR Binding

			<u>Binds CAR?</u>			
401 (Ad5)				473 (Ad5)		
D	30	LWTTLDPSPNCKID	?	30	GDSILPEPYKNAIGFMPN	
C	5	LWTT <u>PAP</u> SPNCRLN	Yes	5	LDPEYWNFRNGDLTEGTA	
C	2	LWTTDPDPSPNCRIH	Yes	2	LKKHYWNFRNGNSTNANP	
D	9	LWTTPDTSFNCKID	Yes/No	9	LGKSYWNFRNENSIMSTA	
D	17	LWTTPDTSFNCKID	Yes	17	LDSTYWNFRSDNLTVSEA	
B	3	LWTGPKPEANCIIE	No	3SARGFMPS	

Figure 3.

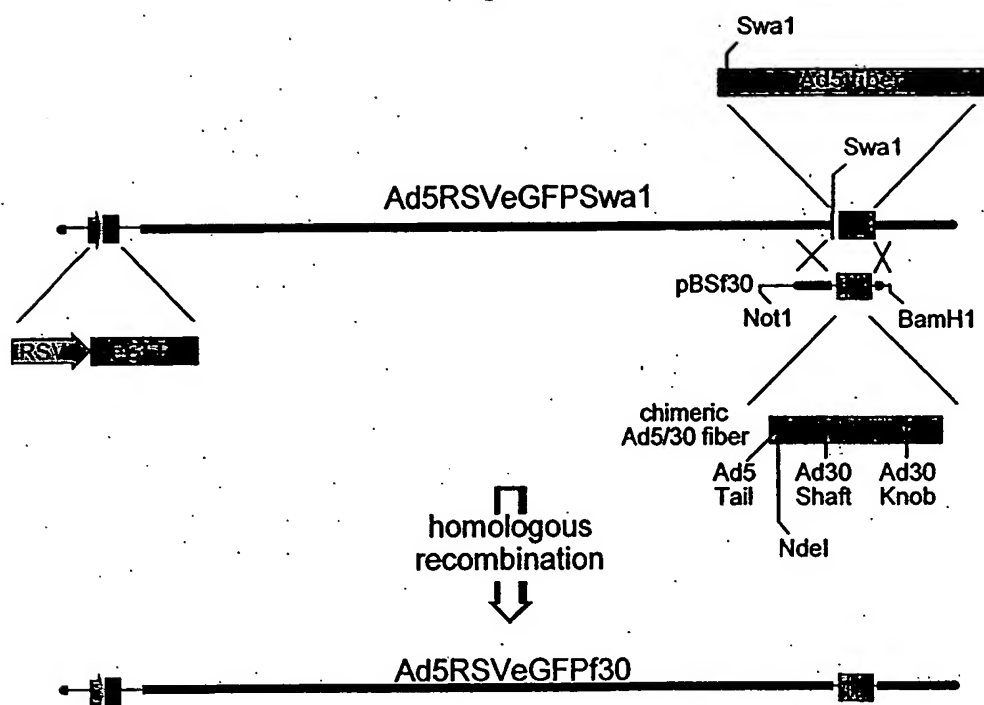


Figure 4.

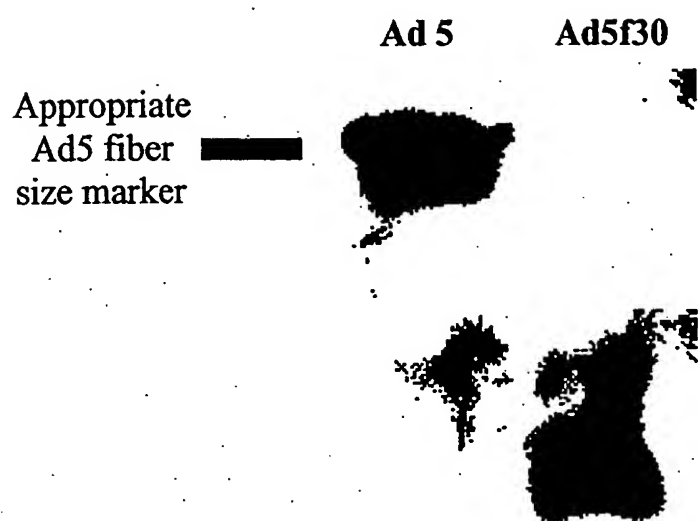


Figure 5a.

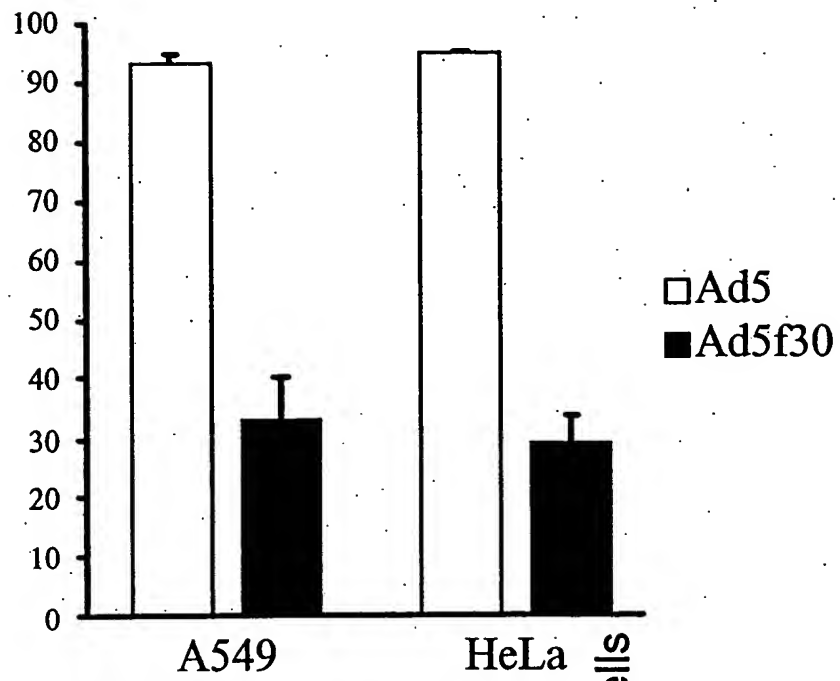


Figure 5b.

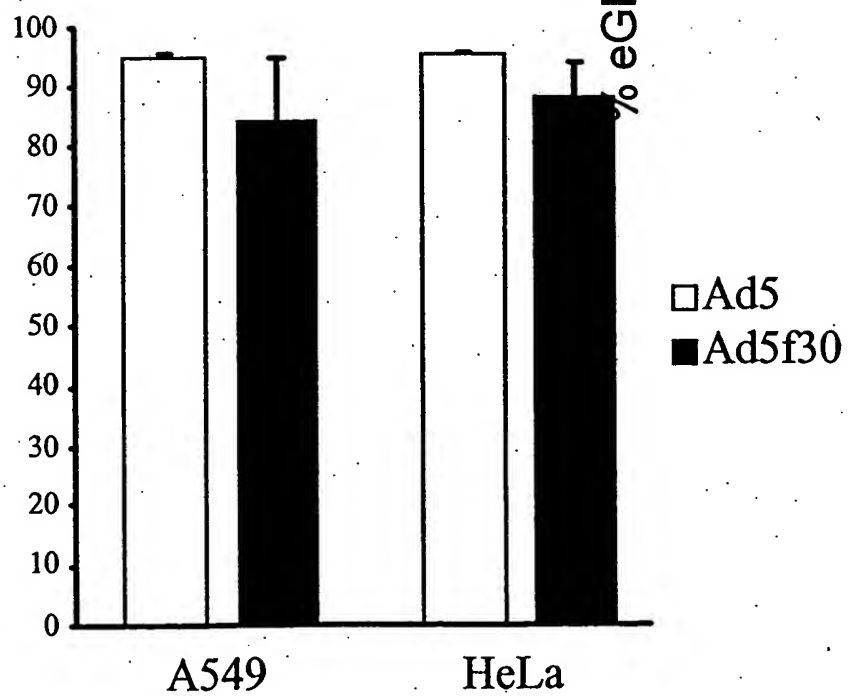


Figure 6.

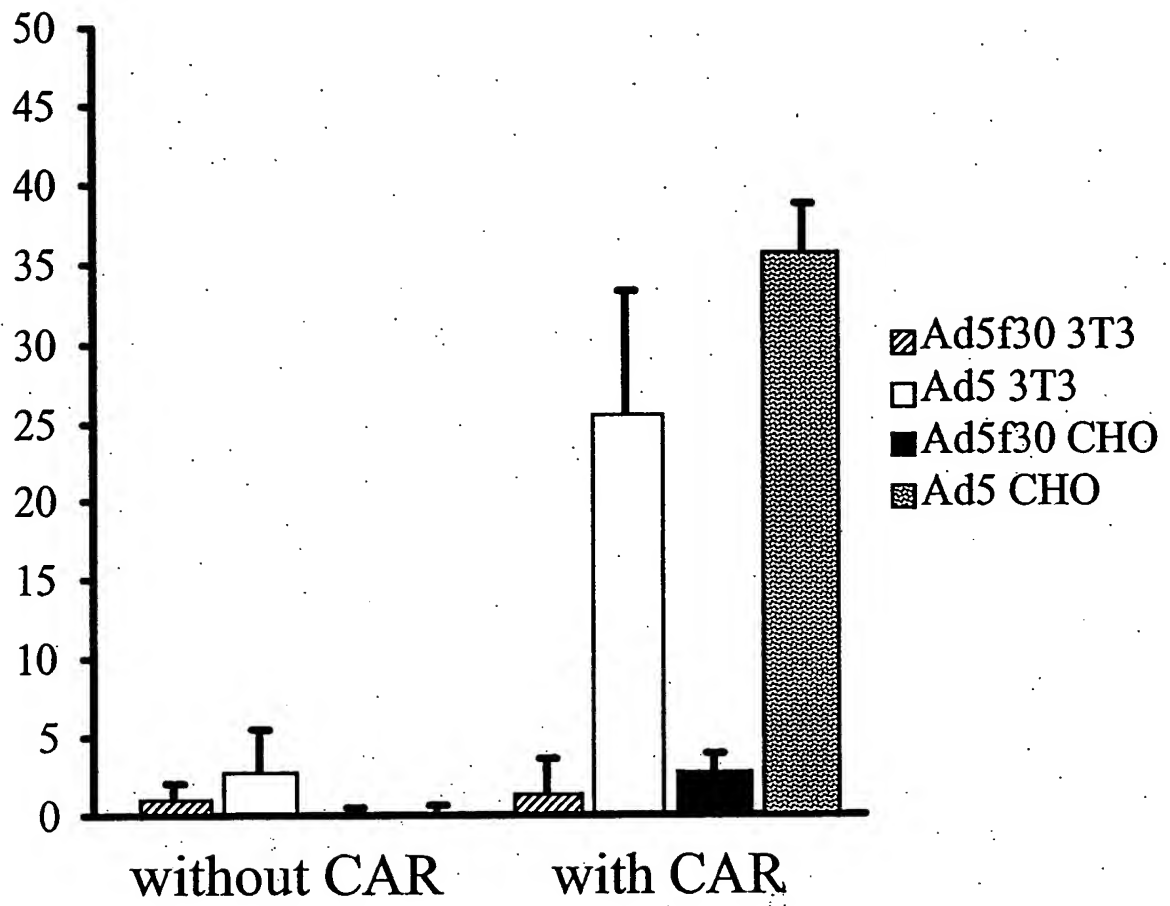


Figure 7a.



Figure 7b.

